

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: SATO, Taraya et al. Conf.:  
Appl. No.: NEW Group:  
Filed: January 15, 2002 Examiner:  
For: BATTERY ACTIVE MATERIAL POWDER MIXTURE,  
ELECTRODE COMPOSITION FOR BATTERIES,  
SECONDARY CELL ELECTRODE, SECONDARY CELL,  
CARABONACEOUS MATERIAL POWDER MIXTURE FOR  
ELECTRICAL DOUBLE-LAYER CAPACITORS,  
POLARIZABLE ELECTRODE COMPOSITION,  
POLARIZABLE ELECTRODE, AND ELECTRICAL  
DOUBLE-LAYER CAPACITOR.

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Washington, DC 20231

January 15, 2002

Sir:

The following preliminary amendments and remarks are respectfully submitted in connection with the above-identified application.

IN THE CLAIMS:

Please amend the claims as follows:

5. (Amended) An electrode composition prepared by wet mixing the powder mixture of claim 1 with a binder polymer in a mixing container subjected to both rotation and revolution.

11. (Amended) A secondary cell electrode comprising a current collector coated with an electrode composition according to claim 5.

17. (Amended) The powder mixture of claim 13, wherein the carbonaceous material has a packing density of not more than 1.0 g/cm<sup>3</sup> and an average particle size of 0.1 to 100  $\mu$ m.

18. (Amended) The powder mixture of claim 13, wherein the carbonaceous material for electrical double-layer capacitors is prepared by subjecting a mesophase pitch-based carbon material, a polyacrylonitrile-based carbon material, a gas phase-grown carbon material, a rayon-based carbon material or a pitch-based carbon material to alkali activation with an alkali metal compound, then grinding the activated carbon material.

19. (Amended) A polarizable electrode composition prepared by wet mixing the powder mixture of claim 13 with a binder polymer in a mixing container subjected to rotational and revolutionary motion.

25. (Amended) A polarizable electrode for electrical double-layer capacitors, which electrode comprises a current collector

coated with a polarizable electrode composition according to claim  
19.

REMARKS

The Amendment to the claims is merely to delete improper multiple dependencies and to place the application into better form for examination. Entry of the present amendment and favorable action on the above-identified application are earnestly solicited.

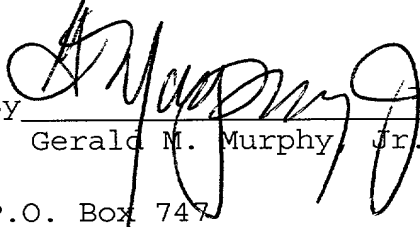
Attached hereto is a marked-up version of the changes made to the application by this Amendment.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

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Attachments

(Rev. 12/19/01)

VERSION WITH MARKINGS TO SHOW CHANGES MADE

The claims have been amended as follows:

5. (Amended) An electrode composition prepared by wet mixing the powder mixture of [any of claims 1 to 4] claim 1 with a binder polymer in a mixing container subjected to both rotation and revolution.

11. (Amended) A secondary cell electrode comprising a current collector coated with an electrode composition according to [any one of claims 5 to 10] claim 5.

17. (Amended) The powder mixture of [any one of claims 13 to 16] claim 13, wherein the carbonaceous material has a packing density of not more than  $1.0 \text{ g/cm}^3$  and an average particle size of 0.1 to 100  $\mu\text{m}$ .

18. (Amended) The powder mixture of [any one of claims 13 to 17] claim 13, wherein the carbonaceous material for electrical double-layer capacitors is prepared by subjecting a mesophase pitch-based carbon material, a polyacrylonitrile-based carbon material, a gas phase-grown carbon material, a rayon-based carbon material or a pitch-based carbon material to alkali

activation with an alkali metal compound, then grinding the activated carbon material.

19. (Amended) A polarizable electrode composition prepared by wet mixing the powder mixture of [any one of claims 13 to 18] claim 13 with a binder polymer in a mixing container subjected to rotational and revolutionary motion.

25. (Amended) A polarizable electrode for electrical double-layer capacitors, which electrode comprises a current collector coated with a polarizable electrode composition according to [any one of claims 19 to 24] claim 19.